INFORMATION SHEET 1.2-3

Driver/Device Driver

LEARNING OBJECTIVES

After reading this INFORMATION SHEET, YOU MUST be able to:

1. Know the definition of device driver

2. Identify its function and purpose in conducting software installation.

INTRODUCTION

A device is disabled without a driver.

Compare to real life scenario a device will not perform its specific task without a device driver or a software that acts as an activator to activate certain device in order to perform its full functionality.

In this information, you are about to learn the definition of driver, its function and its purpose in conducting software installation. How to prepare driver for installation.

DRIVER

A driver or device driver is a software program that enables a specific hardware device to work with a computer's operating system.

*Figure 3.1 **Driver's function***

Drivers may be required for internal components, such as video cards and optical media drives, as well as external peripherals, such as printers and monitors.

But most modern hardware is **"plug and play"** meaning the devices will work without requiring driver installation. However, even if a hardware device is recognized by the operating system, installing the correct drivers may provide additional options and functionality for the device.

For example, most mice work automatically when they are connected to a PC. However, installing the appropriate mouse driver may allow you to customize the function of each button and adjust the mouse sensitivity. Some keyboard drivers allow you to assign functions to specific keys, such as controlling the volume or opening specific applications.

Driver is the linker of a certain hardware to computer. A hardware without driver is like a plane without a pilot. It is still a machine but it does not act like a machine itself.

Source: http://www.techterms.com

Before installation/reformatting we should check first all device drivers needed in installation process. Failure to do so, it may leads to different errors that may cause the computer and its connected devices to work

improperly. The following errors may occurs if device drivers are not properly installed.

1. **If system's drivers are not installed.**
   a. No sounds input and output (mic and speaker are not working properly)
   b. Not able to connect to the network
   c. Poor video display
   d. Manufacturers default software are not possible to use
   e. Not able to print, if printer's driver is not installed
   f. And some IO ports are not usable (e.g, sd card reader)

2. **If add-on devices' drivers are not installed, including input and output devices.**
   a. Devices are not possible to work properly according to its specificity.

   E.g.,

   Scanner is not able to scan without the presence of its required driver.

Preparing Driver for Installation

Procedures in preparing driver for installation.

1. Check the installation driver disc attached in a newly purchased computer.
2. If don't have driver disc, try to identify the specificity of a computer, including its brand name and code then search over the internet the equivalent needed drivers.
3. If internet connection is not available, make it sure that you prepared the all in one (AIO) DriverPack Solution app for you to install the required drivers for installation.

Choosing the right drivers

In choosing the correct drivers, you must to consider the following:

Check the specific required drivers for its equivalent devices.

E.g.

You lose your disc driver attached upon purchasing your laptop.

You are trying to reformat a laptop. The first thing you need to do is to obtain its hardware specification, get the specific brand name and code of your device. Search the code in the internet and find its exact specification and download the drivers.
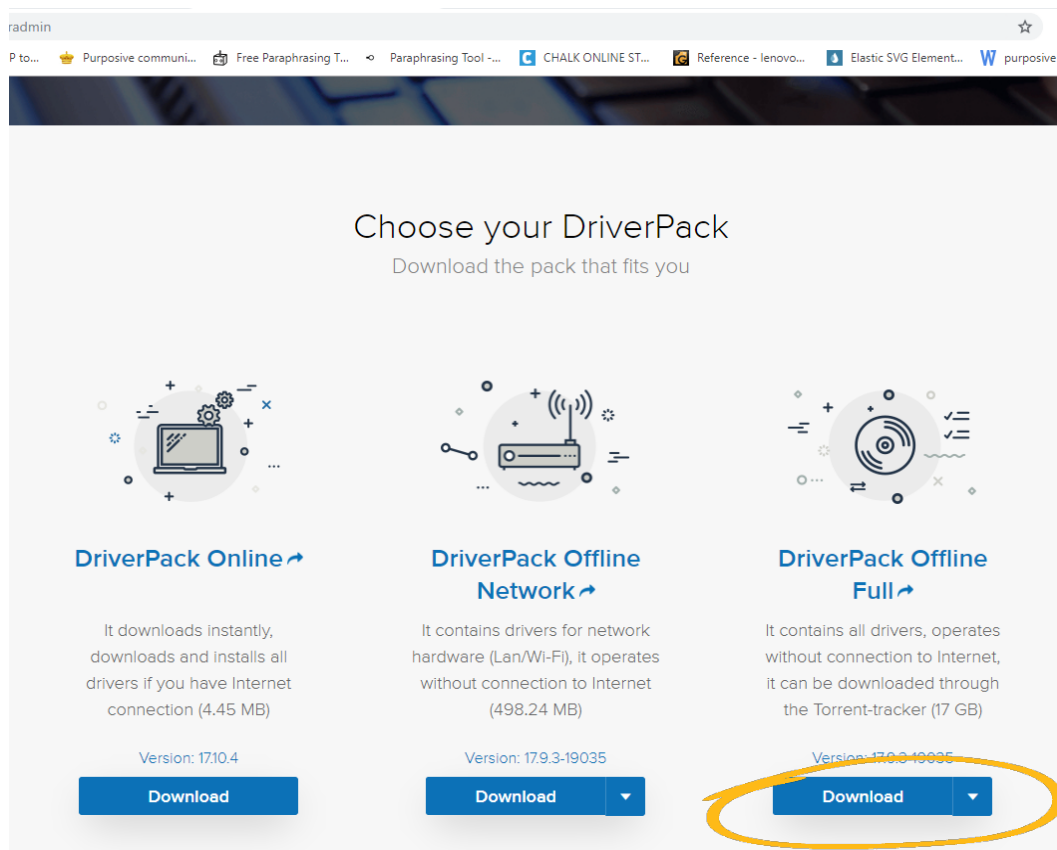
Every devices has an equivalent drivers, except those Plug and Play (PnP) devices which do not requires drivers in order to use it.

CREATING ALL IN ONE DRIVER

Downloading all drivers may require ample time and wide variety resource. It may occupy large space on a disc. And also, there are hundreds of different devices which may requires hundreds of different drivers. As a technician we need to have all drivers in our hand which is impossible to obtain. But using Driver Pack application which enable us to possess most recent drivers for different kinds of devices. With this driver we can install any drivers for any devices in any point of time.

Procedure in Preparing DriverPack (All-in-One Driver)

1. Download DriverPack app at https://drp.su/en/foradmin

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CSS	**Install and configure computer systems** *Learning Outcome 2 Driver*	ISMAEL MANIC BALANA *www.facebook.com/itsmeismael* *09464485036*	Version 1.1.2019	Page 182
			Revision # 01	

Figure 3.2 **Screenshot of download page of DriverPack solution websit**

3. You will see a "DriverPack-Offline.torrent" downloaded file and the bottom corner of the browser then click to install if download file is not visible press **CTRL + J** to view downloaded files.

Figure 3.3 **Screenshot of downloaded torrent file using google chrome**

Note: *You need a torrent downloader such as, bitTorrent/uTorrent in order to download the torrent file. If you don't have installed torrent app you can download bitTorrent application at* http://www.bittorrent.com/ *after downloading the file you need to install this tiny app.*

Visit http://www.wikihow.com/Install-the-BitTorrent-Client *to proceed the installation.* **Note: Using bitTorrent downloader is solely use in this procedure to download free application. Downloading cracked/pre-activated proprietary software are strongly prohibited.**

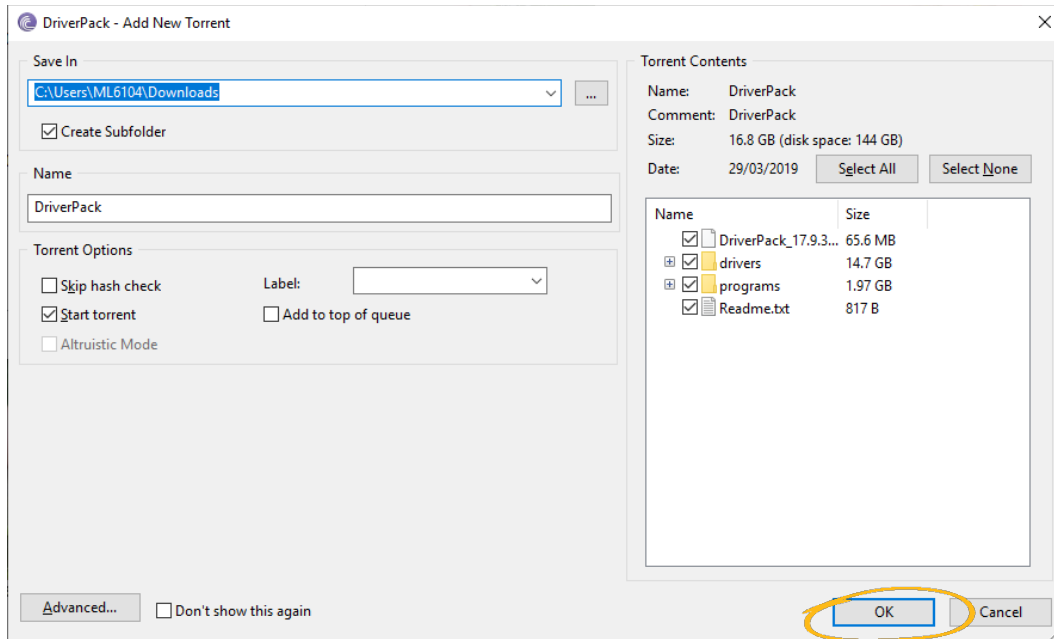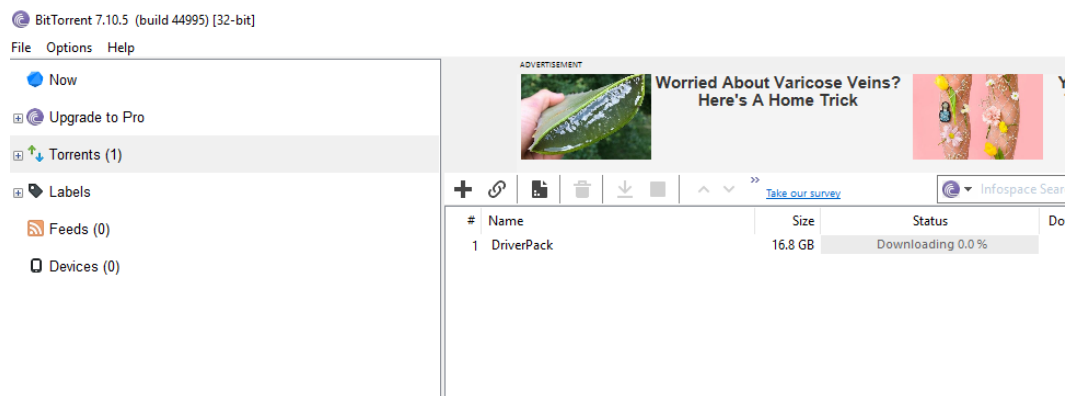4. After clicking the file the image shown below will appear then click ok to download it.

Figure 3.4 **Dialog box confirm the installation of torrent**

5. The installation is started, wait for several hours to complete the installation.

SELF CHECK 1.2-3

Name:	
Date:	

I. Direction: Encircle the best answer. If you chose the wrong answer, don't fight for it, instead let go and moved on, or else you'll get hurt. Don't play with questionnaire, it did nothing to you. Answer according to your mind and heart's content, and pray that this test will love you back. ☺

1. **It is a software program that enables a specific hardware device to work with a computer's operating system.**

a. Driver

b. System software

c. application software

d. OS

2. **It means the devices will work without requiring driver installation.**

a. Driver

b. OS

c. Operating System

d. Plug n Play

II. True or False: Read each statement and identify if the statement is true or false. Write F if statement is false, otherwise, write T if statement is true.

_____1. We don't need driver during installation/formatting process.

_____2. All devices are not working without installer driver.

_____3. Driver is the linker of the computer's devices attached to it.

_____4. You are trying to reformat a laptop. The first thing you need to do is to obtain its hardware specification.

_____5. Plug and play meaning, the devices will not work without requiring driver installation.

_____6. If system's drivers are not installed, Manufacturers default software are not possible to use

_____7. A device is enabled without a driver.

_____8. Driver is the linker of a certain hardware to computer.

_____9. Scanner is not able to scan without the presence of its required driver.

_____10. Before installation/reformatting we should check first all device drivers needed in installation process.

ANSWER KEY 1.2-3

(Multiple Choice)

1. A
2. C

 (True or False)

1. F
2. F
3. T
4. T
5. F
6. T
7. F
8. T
9. T
10. T